

Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds

Project Number: 136742

Soil Boring: ☒

Monitoring Well: ☐

Piezometer: ☐

Boring/Well Name: OU4-UEP-09

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Boring Location: OU4 Unlined Evaporation Ponds		Northing: 1553650.53	Easting: 324978.46
Drilling Contractor: WDC		Top of PVC Elevation: Ground Surface Elevation: 4350.45 feet amsl	
Drilling Equipment: Geoprobe		Date Started: 10-14-08	Date Finished: 10-14-08
Drilling Method: Direct-Push		Completed Depth: 30 ft bgs	Water Depth: 23 ft bgs
WELL CONSTRUCTION			
Sampling Method: Continuous Core		Driller: Rick Smedley	
Well Seal: N/A		Borehole Diameter: 2"	
Logged By: C. Haley		Drilling Fluid: N/A	
		Type and Diameter of Well Casing: N/A	
		Slot Size: N/A	Filter Material: Cement grout

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
4350		ML	SILT (Pond Sediments) (0 - 3) Yellow, moist.						<p>Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.</p> <p>Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.</p> <p>Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.</p> <p>All depths are below land surface unless stated otherwise.</p> <p>Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.</p> <p>Type 2 Samples are representative of meteoric water mobility soil samples.</p>
5	4345	SM	Silty SAND (Native Soil) (3 - 8) Sample: <u>OU4-UEP-09A-SC</u> from 4-7 feet.						
		SW	SAND (8 - 11)						
10	4340	SM	silty SAND (11 - 15)						
15	4335	SM	silty SAND and SAND (15 - 20) Sand zones interbedded with silty sand. Depth and thickness not specified. Sample: <u>OU4-UEP-09B-SC</u> from 16-20 feet.						

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Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
4330		SM	silty SAND (20 - 25) Becomes saturated at 23 feet.						
25	4325	SW	SAND (25 - 26.5) Sample: <u>OU4-UEP-09-GW</u> from 25-29 feet.						
		SM	silty SAND (26.5 - 30)						
30	4320		Bottom of Borehole at 30 feet below ground surface.						
35	4315								
40	4310								
45									